## **Electricity Basics**

1.	What type of current does a photovoltaic panel produce?		
	a.	U	
		Direct	
		Battery	
	a.	Solar	
2.	The unit of electrical current flowing through a wire is:		
	a.	Volt	
	b.	Amp	
	c.	Watt	
	d.	Watt-hour	
	e.	Amp-hour	
3.	The unit of force that cause electrons to flow in a conductor is the:		
	a.	Volt	
	b.	Amp	
	c.	Watt	
	d.	Watt-hour	
	e.	Amp-hour	
4.	A PV panel produces 3 amps at 12 volts. The power produced is:		
	a.	12	1. Volts
	b.	36	2. Amps
	c.	4	3. Watts
	d.	15	4. Watt-Hours
			5. Amp-hours
5.	A PV panel produces 1.5 amps at 24 volts. The power produced is:		
	a.	1.5	1. Volts
	b.	12	2. Amps
	c.	24	3. Watts
	d.	25.5	4. Watt-Hours
	e.	36	5. Amp-hours
6.	A PV array produces 2 amps at 24 volts for 3 hours. The energy produced is:		
	a.	2	1. Volts
	b.	6	2. Amps
	c.	12	3. Watts
		48	4. Watt-Hours
	e.	144	5. Amp-hours

## **Electricity Basics**

- 7. A 60 watt light bulb, operating at 120 V AC will draw how much current?
- 8. A 60 watt light bulb, operating at 12 V DC will draw how much current?

**Note: 1,000 watt-hours = 1 kilowatt-hour** 

- 9. A PV array produces 2000 watts for 5 hours. How much energy is produced?
  - a. 400
- 1. Volts
- b. 2,000
- 2. Amps
- c. 10,000
- 3. Watts
- d. 12,000
- 4. Watt-Hours
- e. 10
- 5. Amp-hours
- 10. A PV array produces 400 watts for an average of 5 hours per day. How much energy is produced in 1 year?
  - a. 400
- 1. Volts
- b. 2,000
- 2. Amps
- c. 146
- 3. KiloWatts
- d. 730
- 4. KiloWatt-Hours
- e. 80
- 5. Amp-hours
- 11. Two 60 watt light bulbs are left on in the basement for one full month. At 10 cent a kilowatt hour, how much does that cost?